

Anthony Viriya

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EMPLOYMENT

Senior Product Security Engineer **Gopay (Gojek's e-money)** **Feb 2021 - Present**

- Launched several automation code to help secure Gopay and its subsidiary company's infrastructures and APIs.
- Performing penetration testing and code review.
- Personal research, especially in iOS system and application security.
- Launched several features on the internal product security dashboard system.

Security Researcher **Synack Red Team** **Jun 2020 - Present**

- Doing private bug bounty, mainly on web and mobile application.

Freelance iOS AppSec Engineer **TEHTRIS** **Jun 2020 – Sep 2020**

- Developed security checking feature for MTD application using Objective-C and Swift.

Consultant Pen-tester **The ITSEC Group** **Jan 2019 – Jan 2021**

- Successfully performed OTP bypass on several banking and e-commerce applications in Indonesia.
- Reverse engineered financial app for Singaporean company using JADX and Frida and discovered account takeover vulnerability.
- Successfully defeated several well-known mobile application security frameworks that are being used by many Singaporean and Indonesian banking applications.
- Found a critical mobile banking vulnerability that allows money to be stolen by malicious actors from any valid account number.
- Found a critical vulnerability on an insurance mobile app that allows malicious actors to leak customer PII. The insurance mobile app is used by Chinese, SriLankan, Indonesian, Thailand insurance company.
- Developed a Jailbreak Detection System, a new product line for ITSEC.

EDUCATION

Information System and Management **BINUS University** **Sep 2014 - 2019**

Bachelor of Science & Bachelor of Economic with thesis in Web Application Firewall creation and business plan

PROJECTS & PUBLICATIONS

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- **isJailbroken** <https://github.com/avltree9798/isJailbroken>
 - Open-Source jailbreak detection library built with Objective-C for iOS application.
 - **AVLWAF** <https://github.com/avltree9798/AVLWAF>
 - Web Application Firewall built with Laravel Framework for my Thesis.
 - **CVE-2019-18815** <https://vulners.com/cve/CVE-2019-18815>
 - Open redirection bug on PopojiCMS.
 - **CVE-2019-18816** <https://vulners.com/cve/CVE-2019-18816>
 - Stored XSS bug on PopojiCMS.

ACHIEVEMENTS

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- [2nd place] ARKAVIDIA 4.0 2018 National Capture the Flag by ITB.
 - [2nd place] UKSW 2017 National Capture the Flag.
 - **Alibaba Cloud Associate: Cloud Security** - IACA02200500011372L
 - **EC-Council Certified Security Analyst (ECSAv10)** – ECC0237568419
 - **EC-Council Certified Security Analyst Practical** – ECC4693820175
 - **Certified Ethical Hacker Master** - ECC9574603281
 - **CREST Practitioner Security Analyst (CPSA)** - 95057205
 - **CREST Registered Penetration Tester (CRT)** - 95057205

SKILLS

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- **Languages:** Objective-C, Swift, Python, Java
 - **Security:** Hopper, Burp Suite, JADX, IDA, Ghidra, Frida, Cycrypt